



May 16, 2019

Energy Innovation Funding

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Wyoming's Coal Fleet

- 19 operating coal units
- Producing 6,126 MW
 - Wyoming's in-state consumption is 1940 MW/h
- Average unit size is 322 MW
- Average age is 38 years (Constructed in 1981)
 - Oldest: Dave Johnston Unit 1 (1959)
 - Newest: Dry Fork Station (2011)



Turbine and generator at Dry Fork Station
Photo credit: Sargent and Lundy

Path Forward

Investment in technologies:

- New coal plants
- Existing plants

Planning resources:

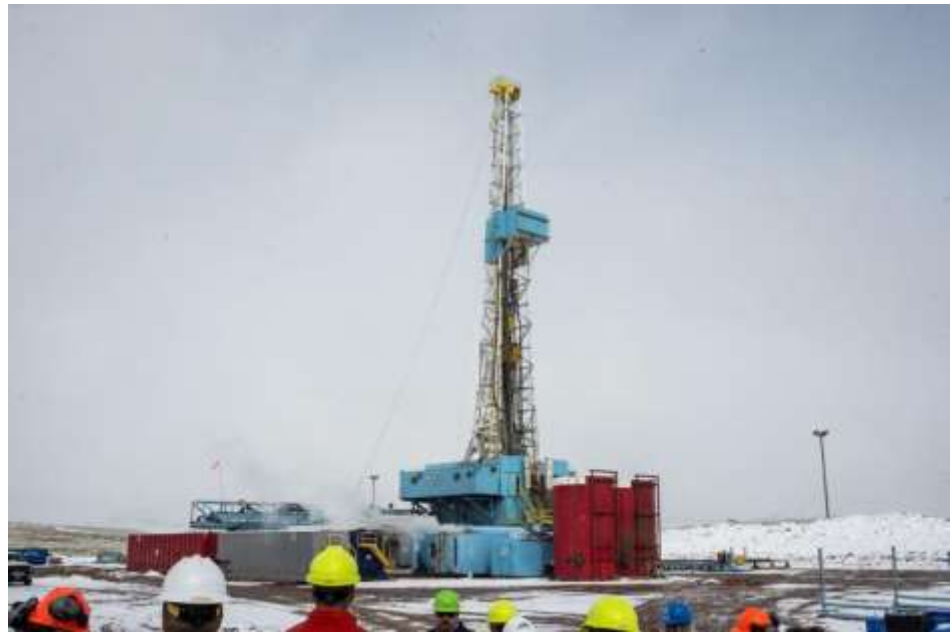
- Studies and modeling
- Economic analysis
- Marketing support



Petra Nova Carbon Capture Plant
Photo credit: NRG

Energy Commercialization Program

- Appropriate \$10 million per biennium
- Money does not revert and can be banked
- Projects must achieve milestones before additional funds are expended
- State Lands and Investment Board (SLIB) is final granting authority



Wyoming CarbonSAFE well
Photo credit: Gillette News Record

Cost Shares Matter

North Dakota's Lignite Research, Development and Marketing Program

- Started in 1987
- 10 cent per ton coal severance tax diversion
- About \$3 million annually for coal research

North Dakota Energy and Environmental Research Center (EERC)

- 1999: \$11 million in annual contracts
- 2004: \$26.5 million
- 2008: \$95 million
- 2019: Current contract portfolio of \$208 million
 - 210 employees
 - 240,000 square feet of laboratory space
 - Regional economic impact: \$78 million

Coal Marketing and Impact Program

- Appropriate \$1 million per biennium to Governor's office
- Money does revert
- Available for:
 - Protect existing markets
 - Explore new market opportunities
 - Local impact studies
 - Diversification initiatives



Millennium Bulk Terminal
Photo credit: TDN



Naughton Power Plant
Photo credit: Rocky Mountain Power



Questions?

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